

FIGURE 1

1	ATG	AAC	TTC	CTT	AAG	TCT	TTC	CCT	TTC	TAC	GCT	TTC	CTT	TGT	TTC	GGT	CAA	TAC	TTC	GTT	60
1	M	N	F	L	K	S	F	P	F	Y	A	F	L	C	F	G	Q	Y	F	V	20
60	GCT	GTT	ACT	CAC	GCT	GCT	GAG	ATC	ACC	CGC	ATT	CCT	CTC	TAC	AAA	GGT	AAG	TCT	CTC	CGT	120
21	A	V	T	H	A	A	E	I	T	R	I	P	L	Y	K	G	K	S	L	R	40
121	AAG	GCG	CTG	AAG	GAA	CAT	GGA	CTT	CTA	GAA	GAC	TTC	TTG	CAG	AAA	CAA	CAG	TAT	GGC	ATC	180
41	K	A	L	K	E	H	G	L	L	E	D	F	L	Q	K	Q	Q	Y	G	I	60
181	AGC	AGC	AAG	TAC	TCC	GGC	TTC	GGT	GAA	GTT	GCT	AGC	GTG	CCA	CTT	ACC	AAC	TAC	CTT	GAT	240
61	S	S	K	Y	S	G	F	G	E	V	A	S	V	P	L	T	N	Y	L	D	80
241	AGT	CAA	TAC	TTT	GGG	AAG	ATC	TAC	CTC	GGA	ACC	CCG	CCT	CAA	GAG	TTC	ACC	GTT	CTC	TTT	300
81	S	Q	Y	F	G	K	I	Y	L	G	T	P	P	Q	E	F	T	V	L	F	100
301	GAT	ACT	GGT	TCC	TCT	GAC	TTC	TGG	GTT	CCC	TCT	ATC	TAC	TGC	AAG	AGC	AAT	GCC	TGC	AAG	360
101	D	T	G	S	S	D	F	W	V	P	S	I	Y	C	K	S	N	A	C	K	120
361	AAC	CAC	CAA	AGA	TTC	GAT	CCG	AGA	AAG	TCG	TCC	ACC	TTC	CAG	AAC	TTA	GGC	AAA	CCC	TTG	420
121	N	H	Q	R	F	D	P	R	K	S	S	T	F	Q	N	L	G	K	P	L	140
420	TCT	ATA	CAC	TAC	GGT	ACA	GGT	AGC	ATG	CAA	GGA	ATC	TTA	GGC	TAT	GAT	ACC	GTC	ACT	GTC	480
141	S	I	H	Y	G	T	G	S	M	Q	G	I	L	G	Y	D	T	V	T	V	160
481	TCC	AAC	ATT	GTG	GAC	ATT	CAA	CAG	ACA	GTA	GGA	CTT	AGC	ACC	CAA	GAA	CCA	GGT	GAT	GTC	540
161	S	N	I	V	D	I	Q	Q	T	V	G	L	S	T	Q	E	P	G	D	V	180
541	TTC	ACC	TAT	GCA	GAA	TTC	GAT	GGC	ATC	CTT	GGT	ATG	GCA	TAC	CCA	TCG	CTC	GCG	TCA	GAG	600
181	F	T	Y	A	E	F	D	G	I	L	G	M	A	Y	P	S	L	A	S	E	200
601	TAC	TCG	ATA	CCT	GTG	TTT	GAC	AAC	ATG	ATG	AAC	CGA	CAC	CTA	GTA	GCT	CAA	GAC	TTG	TTC	660
201	Y	S	I	P	V	F	D	N	M	M	N	R	H	L	V	A	Q	D	L	F	220
661	TCG	GTT	TAC	ATG	GAC	AGG	AAT	GGC	CAG	GAG	AGC	ATG	CTC	ACG	CTT	GGA	GCT	ATT	GAT	CCA	720
221	S	V	Y	M	D	R	N	G	Q	E	S	M	L	T	L	G	A	I	D	P	240
721	TCC	TAC	TAC	ACA	GGA	TCT	CTT	CAC	TGG	GTT	CCA	GTC	ACT	GTG	CAG	CAG	TAC	TGG	CAA	TTC	780
241	S	Y	Y	T	G	S	L	H	W	V	P	V	T	V	Q	Q	Y	W	Q	F	260
781	ACT	GTG	GAC	AGT	GTC	ACC	ATC	AGC	GGT	GTG	GTT	GTT	GCA	TGT	GAA	GGT	GGA	TGT	CAA	GCT	840
261	T	V	D	S	V	T	I	S	G	V	V	V	A	C	E	G	G	C	Q	A	280
841	ATC	TTG	GAT	ACC	GGT	ACG	TCC	AAG	CTG	GTC	GGA	CCT	AGC	AGC	GAC	ATT	CTC	AAC	ATT	CAG	900
281	I	L	D	T	G	T	S	K	L	V	G	P	S	S	D	I	L	N	I	Q	300
901	CAA	GCT	ATT	GGA	GCC	ACA	CAG	AAC	CAG	TAC	GGT	GAG	TTT	GAC	ATA	GAT	TGC	GAC	AAC	CTT	960
301	Q	A	I	G	A	T	Q	N	Q	Y	G	E	F	D	I	D	C	D	N	L	320
961	AGC	TAC	ATG	CCT	ACA	GTT	GTC	TTT	GAG	ATC	AAC	GGC	AAG	ATG	TAC	CCA	CTG	ACC	CCC	TCC	1020

[illegible]

FIGURE 2

1 ctgcaggaattcattgtactcccagtatcattatagtgaaagttttggctctctcgccggtgggttttttacctctattta 80

81 aagggggtttccacctaataattctgggtatcattctcactttacttgttactttaatttttcataatcttttggttgaat 160

161 tatcacgcttccgcacacgatatccctacaaatttattatttggtaaaccattttcaaaccgcataaaattttatgaagtc 240

241 ccgtctatcttttaattgtagtctaaccattttcatattgaaatatataatttacttaatttttagcggttggtagaaagcataa 320

321 agatttattcttattcttcttcatataaatgttttaatatataaataaataattctttaccttaagaaggattttcccat 400

401 tttatattttataaaatatattttatcaaataatttttcaaccacgtaaatctcataataataagttgtttcaaaagtaataa 480

481 aatttaactccataattttttttattcgactgatcttaaagcaacaccagtgacacaactagccatttttttctttgaat 560

561 aaaaaaatccaattatcattgtattttttttataacaatgaaaatttcaccaaacaatcatttgtgggtatttctgaagcaa 640

641 gtcatgttatgcaaaattctataattcccatttgacactacggaagtaactgaagatctgcttttacatgcgagacacat 720

721 cttctaaagtaattttaataatagttactatattcaagatttcataatatcaaatactcaatattacttctaaaaaattaa 800

801 ttagatataattaaaatattacttttttaattttaagtttaattgttgaatttgtgactattgatttatttctactat 880

881 gtttaaattgttttatagatagtttaaagtaaatataagtaatgtagtagagtgttagagtgttacctaaccataaac 960

961 tataacatttatgggtggactaattttcatatatttcttattgcttttaccttttcttggtatgtaagtcgtaactagaa 1040

1041 ttacagtgggttgccatggcactctgtggtcttttgggtcatgcatgggtcttgcgcaagaaaaagacaaagaacaaaga 1120

1121 aaaaagacaaaacagagagacaaaacgcaatcacacaaccaactcaaattagtcactgggtgatcaagatcgccgcgtcc 1200

1201 atgtatgtctaaatgccatgcaaagcaacacgtgcttaacatgcactttaaatgggtcacccatctcaaccacacacaa 1280

1281 acacattgcctttttcttcatcatcaccacaaccacctgtatatattcattctcttccgccacctcaatttcttcacttc 1360

1361 aacacacgtcaacctgcatatgcgtgtcatcccatgccc aaatctccatgcatgttccaaccaccttctctcttatataa 1440

1441 tacctataaatacctctaataatcactcacttctttcatcatccatccatccagagtactactactctactactataatac 1520

1521 cccaaccaactcatattcaataactactctact ATG AAC TTC CTT AAG TCT TTC CCT TTC TAC GCT 1586

1 M N F L K S F P F Y A 11

1587 TTC CTT TGT TTC GGT CAA TAC TTC GTT GCT GTT ACT CAC GCT GCT GAG ATC ACC CGC ATT 1646

12 F L C F G Q Y F V A V T H A } A E I T R I 31

1647 CCT CTC TAC AAA GGT AAG TCT CTC CGT AAG GCG CTG AAG GAA CAT GGA CTT CTA GAA GAC 1706

32 P L Y K G K S L R K A L K E H G L L E D 51

1707 TTC TTG CAG AAA CAA CAG TAT GGC ATC AGC AGC AAG TAC TCC GGC TTC GGT GAA GTT GCT 1766

52 F L Q K Q Q Y G I S S K Y S G F G E V A 71

1767 AGC GTG CCA CTT ACC AAC TAC CTT GAT AGT CAA TAC TTT GGG AAG ATC TAC CTC GGA ACC 1826

72 S V P L T N Y L D S Q Y F G K I Y L G T 91

FIGURE 2 cont'd

1827	CCG CCT CAA GAG TTC ACC GTT CTC TTT GAT ACT GGT TCC TCT GAC TTC TGG GTT CCC TCT	1886
92	P P Q E F T V L F D T G S S D F W V P S	111
1887	ATC TAC TGC AAG AGC AAT GCC TGC AAG AAC CAC CAA AGA TTC GAT CCG AGA AAG TCG TCC	1946
112	I Y C K S N A C K N H Q R F D P R K S S	131
1947	ACC TTC CAG AAC TTA GGC AAA CCC TTG TCT ATA CAC TAC GGT ACA GGT AGC ATG CAA GGA	2006
132	T F Q N L G K P L S I H Y G T G S M Q G	151
2007	ATC TTA GGC TAT GAT ACC GTC ACT GTC TCC AAC ATT GTG GAC ATT CAA CAG ACA GTA GGA	2066
152	I L G Y D T V T V S N I V D I Q Q T V G	171
2067	CTT AGC ACC CAA GAA CCA GGT GAT GTC TTC ACC TAT GCA GAA TTC GAT GGC ATC CTT GGT	2126
172	L S T Q E P G D V F T Y A E F D G I L G	191
2127	ATG GCA TAC CCA TCG CTC GCG TCA GAG TAC TCG ATA CCT GTG TTT GAC AAC ATG ATG AAC	2186
192	M A Y P S L A S E Y S I P V F D N M M N	211
2187	CGA CAC CTA GTA GCT CAA GAC TTG TTC TCG GTT TAC ATG GAC AGG AAT GGC CAG GAG AGC	2246
212	R H L V A Q D L F S V Y M D R N G Q E S	231
2247	ATG CTC ACG CTT GGA GCT ATT GAT CCA TCC TAC TAC ACA GGA TCT CTT CAC TGG GTT CCA	2306
232	M L T L G A I D P S Y Y T G S L H W V P	251
2307	GTC ACT GTG CAG CAG TAC TGG CAA TTC ACT GTG GAC AGT GTC ACC ATC AGC GGT GTG GTT	2366
252	V T V Q Q Y W Q F T V D S V T I S G V V	271
2367	GTT GCA TGT GAA GGT GGA TGT CAA GCT ATC TTG GAT ACC GGT ACG TCC AAG CTG GTC GGA	2426
272	V A C E G G C Q A I L D T G T S K L V G	291
2427	CCT AGC AGC GAC ATT CTC AAC ATT CAG CAA GCT ATT GGA GCC ACA CAG AAC CAG TAC GGT	2486
292	P S S D I L N I Q Q A I G A T Q N Q Y G	311
2487	GAG TTT GAC ATA GAT TGC GAC AAC CTT AGC TAC ATG CCT ACA GTT GTC TTT GAG ATC AAC	2546
312	E F D I D C D N L S Y M P T V V F E I N	331
2547	GGC AAG ATG TAC CCA CTG ACC CCC TCC GCC TAT ACC AGC CAG GAT CAA GGG TTC TGC ACC	2606
332	G K M Y P L T P S A Y T S Q D Q G F C T	351
2607	AGT GGA TTC CAG AGT GAG AAC CAT TCC CAG AAA TGG ATC TTG GGA GAT GTG TTC ATT CGT	2666
352	S G F Q S E N H S Q K W I L G D V F I R	371
2667	GAG TAC TAC AGC GTC TTT GAC AGG GCC AAC AAC CTC GTT GGG CTA GCT AAA GCA ATC TGA	2726
372	E Y Y S V F D R A N N L V G L A K A I *	391
2727	agcttaataagtatgaactaaaatgcatgtaggtgtaagagctcatggagagcatggaatattgtatccgaccatgtaac 2806	
2807	agtataataaactgagctccatctcacttcttctatgaataaacaaggatgttatgatatattaacactctatctatgca 2886	
2887	ccttattgttctatgataaatttctcttattattataaatcatctgaatcgtgacggcttatggaatgcttcaaatagt 2966	

FIGURE 2 cont'd

2967 acaaaaacaaatgtgtactataagacttttctaacaattctaacttttagcattgtgaacgagacataagtggttaagaaga 3046
3047 cataacaattataatggaagaagtttgtctccatttatatattatattaccacttatgtattatattaggatgttaa 3126
3127 ggagacataacaattataaagagagaagtttgtatccatttatatattatataactaccatttatatattataacttatcc 3206
3207 acttattttaatgtctttataaggtttgatccatgatatttctaataatttttagttgatatgtatatgaaaggggtactat 3286
3287 gaactctcttactctgtataaaggttggatcatccttaaagtggtctattttaattttattgcttcttacagataaaaaa 3366
3367 aaaattatgagttgggttgataaaaattgaaggattttaaataataataaataaataacatataatatatgtatat 3446
3447 aaatttattataatataacatttatctataaaaaagtaaatattgtcataaatctatacaatcgtttagccttgctggac 3526
3527 gactctcaattattttaacgagagtaaacatatttgacttttttggttatttaacaaattattatttaacactatatgaaa 3606
3607 ttttttttttttatcggcaaggaaataaaattaaattaggagggaacaatgggtgtgtcccaatccttatacaaccaacttc 3686
3687 cacaggaaggtcaggtcggggacaacaaaaaacaggcaagggaattttttaatttgggttgctcttggttgctgcataa 3766
3767 tttatgcagtaaaacactacacataacccttttagcagtagagcaatgggttgaccgtgtgcttagcttctttttattttat 3846
3847 ttttttatcagcaaagaataaaataaaaataaaatgagacacttcagggatgtttcaacccttatacaaaacccccaaaaaca 3926
3927 agtttccttagcaccctaccaactaaggtacc 3957

1000 900 800 700 600 500 400 300 200 100 0

FIGURE 3

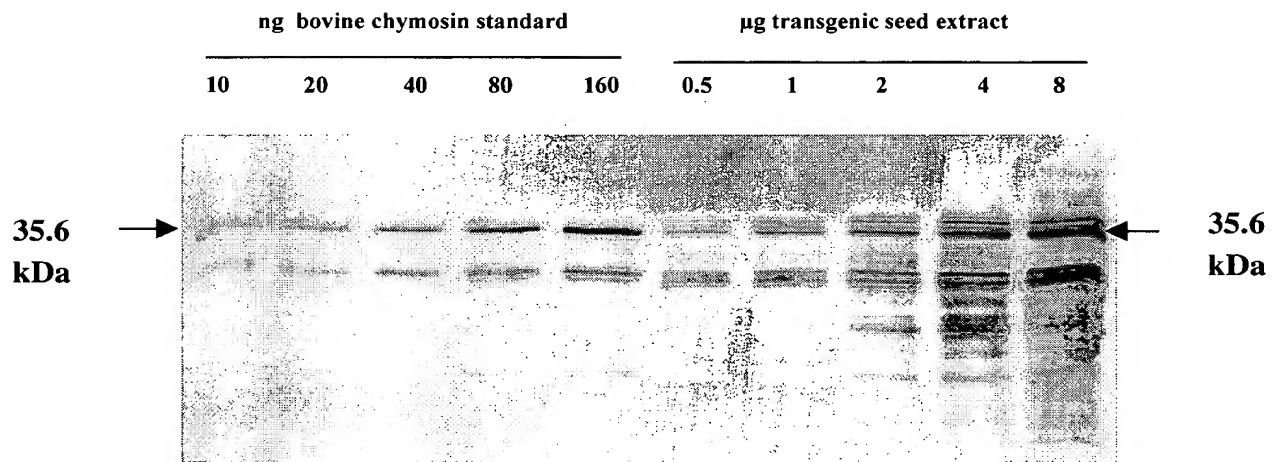


FIGURE 4

Expression of chymosin in plants

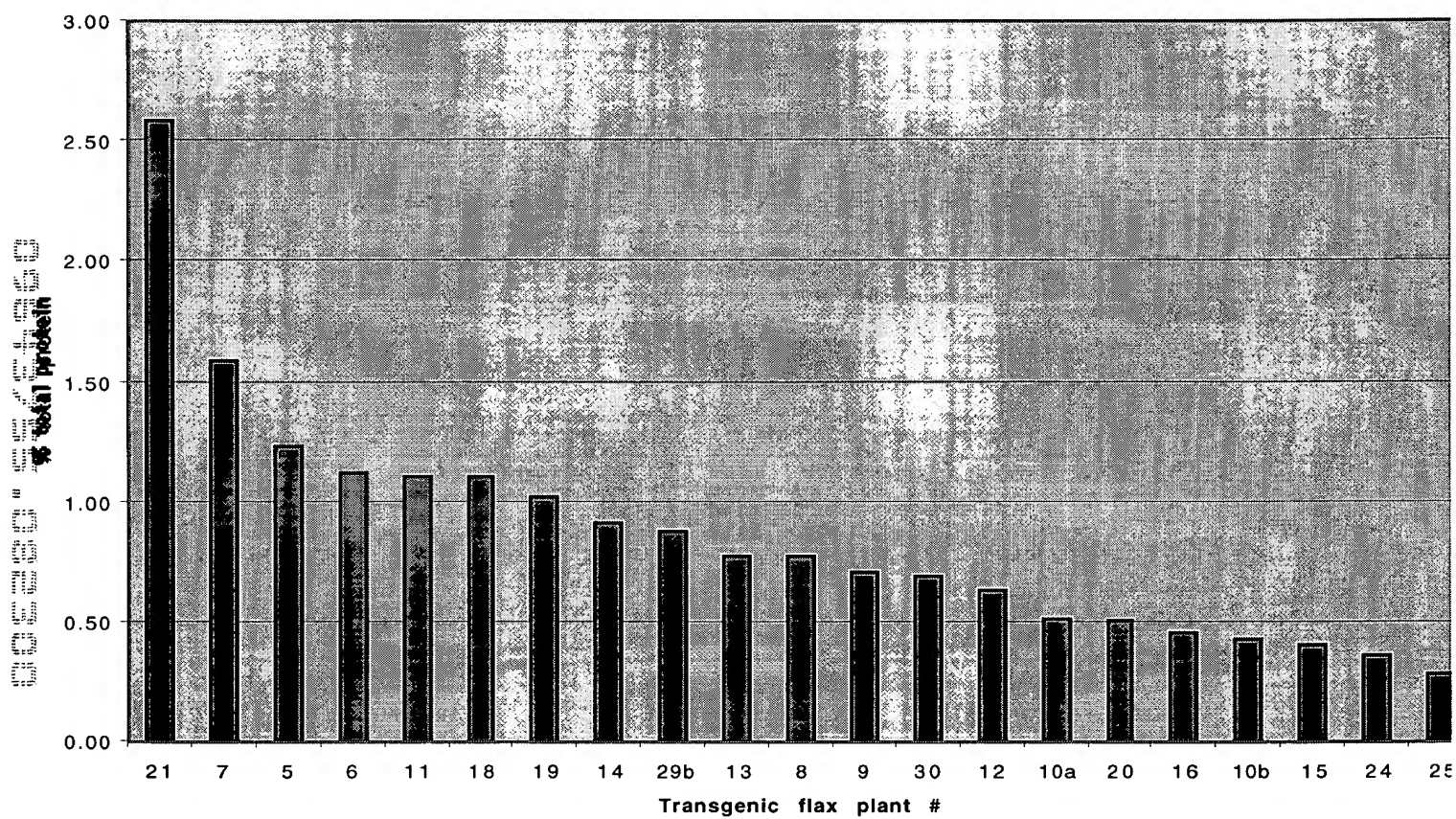
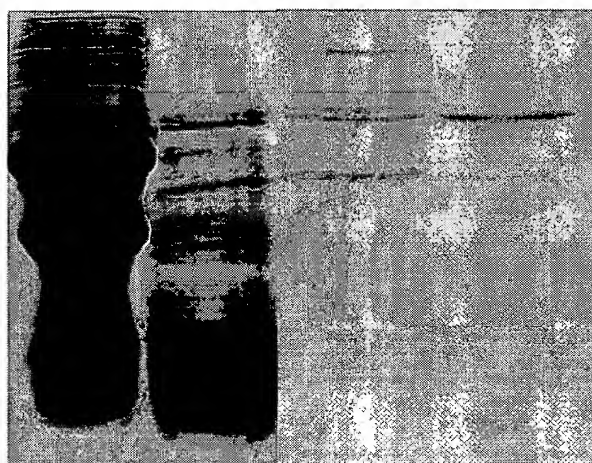


FIGURE 5



1 2 3 4